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1 **Quartz thickness-shear mode pressure sensor design for enhanced sensitivity**
Clayton, L.D.; EerNisse, E.P.;
Ultrasonics, Ferroelectrics and Frequency Control, IEEE Transactions on , Volu
45 , Issue: 5 , Sept. 1998
Pages:1196 - 1203

[Abstract]   [PDF Full-Text (1080 KB)]   **IEEE JNL**

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2 **The use of high temperature electronics in downhole applications**
den Boer, J.J.;
High Temperature Electronics, 1999. HITEN 99. The Third European Conferen
on , 4-7 July 1999
Pages:149 - 152

[Abstract]   [PDF Full-Text (148 KB)]   **IEEE CNF**

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3 **Quartz thickness-shear mode pressure sensor design for enhanced sensitivity**
Clayton, L.D.; Eernisse, E.P.;
Frequency Control Symposium, 1997., Proceedings of the 1997 IEEE
International , 28-30 May 1997
Pages:175 - 182

[Abstract]   [PDF Full-Text (840 KB)]   **IEEE CNF**

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4 **Dividing oil fields into regions with similar characteristic behavior u neural network and fuzzy logic approaches**
Nikravesh, M.; Kovscek, A.R.; Patzek, T.W.;
Fuzzy Information Processing Society, 1996. NAFIPS. 1996 Biennial Conferenc
the North American , 19-22 June 1996
Pages:164 - 169

[Abstract]   [PDF Full-Text (584 KB)]   **IEEE CNF**

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5 **Long-term stability and performance characteristics of crystal quart gauge at high pressures and temperatures**
Matsumoto, N.; Sudo, Y.; Sinha, B.K.; Niwa, M.;
Ultrasonics, Ferroelectrics and Frequency Control, IEEE Transactions on , Volu
47 , Issue: 2 , March 2000
Pages:346 - 354

[Abstract]   [PDF Full-Text (352 KB)]   **IEEE JNL**

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6 **Long-term stability and performance characteristics of crystal quart gauge at high pressures and temperatures**
Matsumoto, N.; Sudo, Y.; Sinha, B.; Niwa, M.;
European Frequency and Time Forum, 1999 and the IEEE International Frequ
Control Symposium, 1999., Proceedings of the 1999 Joint Meeting of the , Vo
2 , 13-16 April 1999
Pages:1019 - 1022 vol.2

[Abstract]   [PDF Full-Text (340 KB)]   **IEEE CNF**

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1 Real natural gas reservoir data Vs. natural gas reservoir models
Ellis A. Monash, John Lohrenz
March 1979 **Proceedings of the twelfth annual simulation symposium**

Full text available: 📄 pdf(934.69 KB)   Additional Information: full citation, abstract, references, index terms

The gas reservoir per se model is an exceedingly simple model of a natural gas reservoir designed to develop the physical relationship between ultimate recovery and rate(s) of withdrawal for production regulation policy assessment. To be responsive, the model must be able to consider rates of withdrawal both far lower and higher than current practices which are dependent on current policies. For this model, as for every model, a reasonable question arises, "Does the model actually work as s ...

2 Random sampling with a reservoir
Jeffrey S. Vitter
March 1985 **ACM Transactions on Mathematical Software (TOMS)**, Volume 11 Issue 1

Full text available: 📄 pdf(1.51 MB)   Additional Information: full citation, abstract, references, citings, index terms, review

We introduce fast algorithms for selecting a random sample of n records without replacement from a pool of N records, where the value of N is unknown beforehand. The main result of the paper is the design and analysis of Algorithm Z; it does the sampling in one pass using constant space and in $O(n(1 + \log(N/n)))$ expected time, which is optimum, up to a constant factor. Several optimizations ...

3 Reservoir-sampling algorithms of time complexity $O(n(1 + \log(N/n)))$
Kim-Hung Li
December 1994 **ACM Transactions on Mathematical Software (TOMS)**, Volume 20 Issue 4

Full text available: 📄 pdf(791.34 KB)   Additional Information: full citation, abstract, references, index terms, review

One-pass algorithms for sampling n records without replacement from a population of unknown size n are known as reservoir-sampling algorithms. In this article, Vitter's reservoir-sampling algorithm, algorithm Z, is modified to give a more efficient algorithm, algorithm K. Additionally, two new algorithms, algorithm L and algorithm M, are proposed. If the time for scanning the population is ignored, all the four algorithms have expected CPU time O
Keywords: analysis of algorithms, random sampling, reservoir

4 Application of a water system computer model in the City of Scottsdale Arizona
Geza E. Kmetty, Meredith Flinn

December 1979 **Proceedings of the 11th conference on Winter simulation - Volume 1**

Full text available: pdf(470.65 KB)   Additional Information: full citation, abstract, citings, index terms

Development, implementation and application of a computer model to simulate an urban water system are discussed. Particular emphasis is placed upon actual use of the model by municipal water supply management. Applications described include system improvements, growth planning and fire protection capability assessment.

5 Supercomputing around the world (Mini symposium)
D. X. Kahaner, A. D. Malony
December 1993 **Proceedings of the 1993 ACM/IEEE conference on Supercomputing**

Full text available: pdf(255.59 KB)   Additional Information: full citation, index terms

6 We will write no online before its time: timing the development of a quality online Help system to minimize panic and save costs
Bruce W. Knorr, Ann Zabriskie Norton
October 1994 **Proceedings of the 12th annual international conference on Systems documentation: technical communications at the great divide**

Full text available: pdf(446.56 KB)   Additional Information: full citation, index terms

7 The cubic mouse: a new device for three-dimensional input
Bernd Fröhlich, John Plate
April 2000 **Proceedings of the SIGCHI conference on Human factors in computing systems**

Full text available: pdf(998.57 KB)   Additional Information: full citation, abstract, references, citings, index terms

We have developed a new input device that allows users to intuitively specify three-dimensional coordinates in graphics applications. The device consists of a cube-shaped box with three perpendicular rods passing through the center and buttons on the top for additional control. The rods represent the X, Y, and Z axes of a given coordinate system. Pushing and pulling the rods specifies constrained motion along the corresponding axes. Embedded within the device is a six degree of freedom tracki ...

Keywords: two-handed interaction, user interface hardware, virtual reality

8 Design automation at a large architect-engineer
E. F. Chelotti, D. P. Bossie
June 1980 **Proceedings of the seventeenth design automation conference on Design automation**

Full text available: pdf(919.02 KB)   Additional Information: full citation, abstract, index terms

Gibbs & Hill (G & H) has been a proponent, developer, and user of Design Automation (DA) techniques for over fifteen years. Progression has been steady and significant, beginning with the use of relatively simple batch computer programs for the solution of specific engineering problems to the current broad application of state-of-the-art hardware and software including interactive graphics and data base management systems. This progress has been matched by acceptance, and at G & ...

9 Evolutionary computation and optimization (ECO): Application of fuzzy logic to multiple criteria decision making in aquacultural planning
Omar F. El-Gayar
March 2004 **Proceedings of the 2004 ACM symposium on Applied computing**

Full text available: pdf(203.00 KB)   Additional Information: full citation, abstract, references, index terms

The field of regional planning is characterized by the large number of issues and attributes involved, and regional planning for aquaculture development is no exception. Moreover, aquacultural plans do not have clearly defined objectives and require information that, if exist, is often imprecise and uncertain.This paper applies fuzzy set theory to multiple criteria decision making (MCDM) in aquaculture planning. In effect, the paper demonstrates how fuzzy set theory can be used to explicitly acc ...

Keywords: aquaculture planning, fuzzy optimization, multiple criteria decision making

10 Annotated bibliography of the proceedings of the annual simulation symposium (1968-1991)
Ross A. Gagliano, Martin D. Fraser
April 1992 **Proceedings of the 25th annual symposium on Simulation**
Full text available: pdf(1.45 MB)   Additional Information: full citation, references, index terms

11 From formal models to formally based methods: an industrial experience
Emanuele Ciapessoni, Piergiorgio Mirandola, Alberto Coen-Porisini, Dino Mandrioli, Angelo Morzenti
January 1999 **ACM Transactions on Software Engineering and Methodology (TOSEM)**, Volume 8 Issue 1
Full text available: pdf(239.61 KB)   Additional Information: full citation, abstract, references, citings, index terms, review

We address the problem of increasing the impact of formal methods in the practice of industrial computer applications. We summarize the reasons why formal methods so far did not gain widespead use within the industrial environment despite several promising experiences. We suggest an evolutionary rather than revolutionary attitude in the introduction of formal methods in the practice of industrial applications, and we report on our long-standing experience which involves an academic institut ...

Keywords: formal models, industrial applications, object orientation, specification, supervision and control, technology transfer

12 The executive office of environmental affairs systems modernization project
Robert A. Huebner
April 1999 **Proceedings of the 19th annual conference on Computer Science**
Full text available: pdf(1.34 MB)   Additional Information: full citation, references

13 Supercomputing around the world
A. D. Malony
December 1992 **Proceedings of the 1992 ACM/IEEE conference on Supercomputing**
Full text available: pdf(366.45 KB)   Additional Information: full citation, index terms

14 Faster methods for random sampling
Jeffrey Scott Vitter
July 1984 **Communications of the ACM**, Volume 27 Issue 7
Full text available: pdf(1.40 MB)   Additional Information: full citation, abstract, references, citings, index terms, review

Several new methods are presented for selecting n records at random without replacement from a file containing N records. Each algorithm selects the records for the sample in a

sequential manner—in the same order the records appear in the file. The algorithms are online in that the records for the sample are selected iteratively with no preprocessing. The algorithms require a constant amount of space and are short and easy to implement. The main result of this paper is the des ...

15 An evaluation of HPF compilers and the implementation of a parallel linear equation solver using HPF and MPI

K. Gary Li, Nabil M. Zamel

November 1997 **Proceedings of the 1997 ACM/IEEE conference on Supercomputing (CDROM)**

Full text available: pdf(73.15 KB)   Additional Information: full citation, abstract, references

In this work, we evaluated the capabilities and performances of two commercially available HPF compilers, xlhpf[1] from IBM and pghpf[2] from the Portland Group. In particular, we examined the suitability of the two compilers for the development of a reservoir simulator. Because of the nature of reservoir simulation, multiple data distributions and data transfer between arrays of different data layouts are of great importance. An HPF compiler that does not provide these capabilities is unsuitabl ...

16 The Soviet Bloc's Unified System of Computers

N. C. Davis, S. E. Goodman

June 1978 **ACM Computing Surveys (CSUR)**, Volume 10 Issue 2

Full text available: pdf(2.76 MB)   Additional Information: full citation, references, citings, index terms

17 Advancements in 3D interactive devices for virtual environments

D. Wormell, E. Foxlin

May 2003 **Proceedings of the workshop on Virtual environments 2003**

Full text available: pdf(24.13 MB)   Additional Information: full citation, abstract, references, index terms

New commercially available interactive 3D tracking devices and systems for use in virtual environments are discussed. InterSense originally introduced the IS-900 scalable-area hybrid tracking system for virtual environments in 1999. In response to customer requests, we have almost completely revamped the system over the past two years. The major changes include a drastic 3-fold reduction in the size and weight of the wearable sensor devices, introduction of wireless tracking capability, a standa ...

Keywords: I^2C Bus, inertial tracking, motion tracking, tracking in virtual environments, wireless tracking

18 Computer science education at universities: the case of developing countries

Vaclav Chvalovsky

February 1978 **ACM SIGCSE Bulletin , Papers of the SIGCSE/CSA technical symposium on Computer science education**, Volume 10 Issue 1

Full text available: pdf(561.07 KB)   Additional Information: full citation, references

19 Development of a simulation model for an Army chemical munition disposal facility

Michael A. Berger, Jiuyi Hua, Paul T. Otis, Katrina S. Werpetinski, Vincent F. Johnston

December 1999 **Proceedings of the 31st conference on Winter simulation: Simulation--- a bridge to the future - Volume 1**

Full text available: pdf(161.99 KB)   Additional Information: full citation, references, index terms

20 American universities need greater access to supercomputers

Gene Dallaire
April 1984 **Communications of the ACM**, Volume 27 Issue 4
Full text available: pdf(651.66 KB)   Additional Information: full citation, index terms

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PGPUB-DOCUMENT-NUMBER: 20030078733
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030078733 A1

TITLE: Method of determining subsidence in a reservoir

PUBLICATION-DATE: April 24, 2003

INVENTOR-INFORMATION:
NAME                         CITY            STATE     COUNTRY      RULE-47
Stone, Terry Wayne           Hampshire                 GB

US-CL-CURRENT: 702/13
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Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D

☐ 2. Document ID: US 20020099505 A1

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L2: Entry 2 of 8                        File: PGPB              Jul 25, 2002

PGPUB-DOCUMENT-NUMBER: 20020099505
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020099505 A1

TITLE: System and method for real time reservoir management

PUBLICATION-DATE: July 25, 2002

INVENTOR-INFORMATION:
NAME                         CITY            STATE     COUNTRY      RULE-47
Thomas, Jacob                Houston         TX        US
Godfrey, Craig William       Dallas          TX        US
Vidrine, William Launey      Katy            TX        US
Wauters, Jerry Wayne         Katy            TX        US
Seiler, Douglas Donald       Houston         TX        US

US-CL-CURRENT: 702/12
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| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D |

□ 3.   Document ID: US 20020053430 A1

L2: Entry 3 of 8   File: PGPB   May 9, 2002

PGPUB-DOCUMENT-NUMBER: 20020053430
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020053430 A1

TITLE: Apparatus and methods for applying time lapse VSP to monitor a reservoir

PUBLICATION-DATE: May 9, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Curtis, Michael P.	Houston	TX	US	
Maerefat, Nicida L.	Sugar Land	TX	US	
Cornish, Bruce E.	Spring	TX	US	

US-CL-CURRENT: 166/250.01; 166/250.15

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D |

□ 4.   Document ID: US 20020016679 A1

L2: Entry 4 of 8   File: PGPB   Feb 7, 2002

PGPUB-DOCUMENT-NUMBER: 20020016679
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020016679 A1

TITLE: System and method for real time reservoir management

PUBLICATION-DATE: February 7, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Thomas, Jacob	Houston	TX	US	
Godfrey, Craig William	Richardson	TX	US	
Vidrine, William Launey	Katy	TX	US	
Wauters, Jerry Wayne	Katy	TX	US	
Seiler, Douglas Donald	Houston	TX	US	

US-CL-CURRENT: 702/14

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D |

☒ 5.   Document ID: US 6715551 B2

L2: Entry 5 of 8   File: USPT   Apr 6, 2004

US-PAT-NO: 6715551
DOCUMENT-IDENTIFIER: US 6715551 B2

TITLE: Apparatus and methods for applying time lapse VSP to monitor a <u>reservoir</u>

DATE-ISSUED: April 6, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Curtis; Michael P.	Houston	TX		
Maerefat; Nicida L.	Sugar Land	TX		
Cornish; Bruce E.	Spring	TX		

US-CL-CURRENT: <u>166/250.16</u>; <u>166/150</u>, <u>166/151</u>, <u>166/249</u>, <u>166/254.1</u>, <u>166/364</u>, <u>166/64</u>

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☒ 6. Document ID: US 6549879 B1

L2: Entry 6 of 8   File: USPT   Apr 15, 2003

US-PAT-NO: 6549879
DOCUMENT-IDENTIFIER: US 6549879 B1

TITLE: Determining optimal well locations from a 3D <u>reservoir</u> model

DATE-ISSUED: April 15, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Cullick; Alvin S.	Dallas	TX		
Vasantharajan; Sriram	Plano	TX		
Dobin; Mark W.	Coppell	TX		

US-CL-CURRENT: <u>703/10</u>; <u>702/11</u>, <u>703/2</u>

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☒ 7. Document ID: US 6356844 B2

L2: Entry 7 of 8   File: USPT   Mar 12, 2002

US-PAT-NO: 6356844
DOCUMENT-IDENTIFIER: US 6356844 B2

TITLE: System and method for real time <u>reservoir management</u>
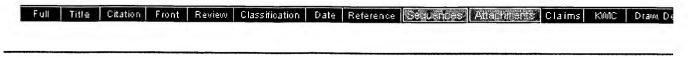
DATE-ISSUED: March 12, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Thomas; Jacob	Houston	TX		

```
Godfrey; Craig William        Richardson    TX
Vidrine; William Launey       Katy          TX
Wauters; Jerry Wayne          Katy          TX
Seiler; Douglas Donald        Houston       TX
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US-CL-CURRENT: 702/12

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De |

☐   8.   Document ID: US 6266619 B1

L2: Entry 8 of 8   ·File: USPT   Jul 24, 2001

US-PAT-NO: 6266619
DOCUMENT-IDENTIFIER: US 6266619 B1

TITLE: System and method for real time reservoir management

DATE-ISSUED: July 24, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Thomas; Jacob	Houston	TX		
Godfrey; Craig	Richardson	TX		
Vidrine; William Launey	Katy	TX		
Wauters; Jerry Wayne	Katy	TX		
Seiler; Douglas Donald	Houston	TX		

US-CL-CURRENT: 702/13

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